

1. PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-001744

(43)Date of publication of application : 07.01.2000

(51)Int.Cl.

C22C 38/00

C22C 38/16

(21)Application number : 10-171697

(71)Applicant : KAWASAKI STEEL CORP

(22)Date of filing : 18.06.1998

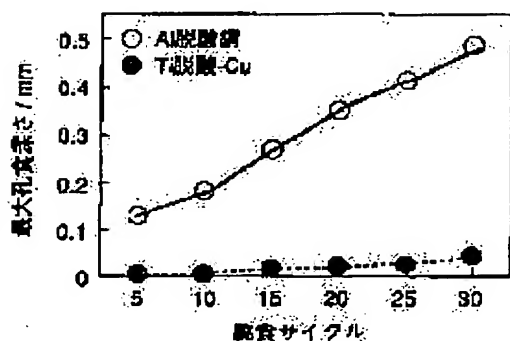
(72)Inventor : MATSUOKA SAIJI
SAKATA TAKASHI
FURUKIMI OSAMU
NABESHIMA SEIJI
YAHIRO TARO

(54) STEEL SHEET FOR DEEP DRAWING, EXCELLENT IN SURFACE CHARACTERISTIC AND CORROSION RESISTANCE, AND ITS MANUFACTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a steel sheet excellent in surface characteristic and corrosion resistance, and its manufacture.

SOLUTION: The steel sheet contains, by weight, $\leq 0.010\%$ C, $\leq 1.0\%$ Si, $\leq 3.0\%$ Mn, $\leq 0.15\%$ P, $\leq 0.05\%$ S, $< 0.01\%$ Al, $\leq 0.01\%$ N, $\geq 0.015\%$ Ti, 0.05-3.0% Cu, and $\geq 0.0005\%$ Ca and/or metallic REM and also contains 0.01-0.1 wt.% of non-oxide Ti (Ti*) and contains Al in an amount satisfying (1) wt.% Ti/wt.% Al ≥ 5 or (2) Al $\leq 0.010\%$ and wt.% Ti/wt.% Al < 5 . At the time of its manufacture, a slab is heated and soaked at 900 to 1,300°C, finish rolling is finished at 650 to 960°C, coiling is done at 400 to 750°C, cold rolling is carried out at 50 to 95% draft, and the resultant sheet is subjected to recrystallization annealing at 700 to 920°C.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of

rejection]

[Kind of final disposal of application other than
the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision
of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]